

7 PROGRAMMING VIA KEYBOARD

DATE AND TIME SETTING

When connected to the Wi-Fi network, the device acquires the date and time settings from the server and no settings are required. However, if you need to manually set the date and time values, proceed as follows:

To set date and time

- 1) Press the key “☺”
- 2) Press the keys “▲” and “▼” to increase and decrease the selected value, and the key “✓” to confirm and move to the next parameter. Order: seconds (only synchronization to value 00), minutes, hours, year, month, day
- 3) To exit the date and time setting menu, press the key “☺”

Note: entering the seconds value is not necessary if the clock is set after a reset.

Configuration of the summer / winter time change

You can configure the device to independently manage the summer time update.

The factory setting includes:

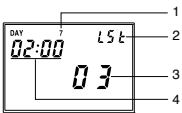
- the passage winter time → summer time (+1h) the last Sunday of March at 2:00 o'clock
- the passage summer time → winter time (-1h) the last Sunday of October at 3:00 o'clock

To change the configuration of the summer/winter time change:

- when changing any of the clock parameters (seconds, minutes, hour, year, month or day), keep the key “☺” pressed for a long time until the display shows AUTO

If the function is enabled (AUTO ON), for each time change it is necessary to set:

- 1 the day of the week (1= Monday...,7= Sunday)
- 2 the week of the month (1st= first, 2nd= second,...LST= last)
- 3 the month of the year
- 4 time



using the keys “▲” and “▼” to set the value and the key “✓” to confirm and move on to the next parameter.

To exit the summer/winter time change configuration, press the key “☺”

Note: the winter time change → summer time is identified by the symbol ☼
the summer time change → winter time is identified by the symbol ☿
For example, in Italy the summer time starts the last (LST) Sunday (7) of March (03) at 2:00 o'clock and the last (LST) Sunday (7) of October (10) at 3:00 o'clock.

PROGRAMS SETTING

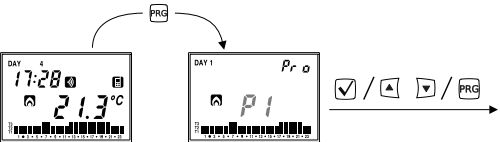
The factory setting includes:

- the P1 program from Monday to Friday
- the P2 program on Saturday and Sunday

If this program is not suitable for your needs, you can:

- assign a different program for one or more days of the week
- modify one or more existing programs by personalizing the profile, that is, assigning different temperature levels for one or more hours of the day. This function is used when none of the 7 preset programs are suitable for your needs.

How to modify the programming



Starting from the first day of the week (DAY1), press:

- “✓” to confirm the selected program and move to the next day
- “▲” and “▼” to assign another program to the day selected from the 7 available
- “PRG” to change the program profile:
 - press the keys T1, T2 or T3 to assign one of the 3 temperatures T1, T2 or T3.
 - press the keys “▲” or “▼” to move to the next or previous hour without changing the set temperature.
 - press the key “☒” to introduce a switching delay for the selected hour. Each press of the key “☒” corresponds to an increment of 15 minutes (delay sequence: 0-15-30-45-0 minutes).

The modification of the programming ends after confirming the program for the last day of the week (DAY7).

How the switching delay works

Set a switching delay for the current hour to maintain the temperature value assigned to the previous hour. for the duration of the delay.

For example, if the program includes:

T2 from 12 to 13 and T3 from 13 to 14 pm with 30 minutes delay

the chronothermostat adjusts the temperature based on the value of

T2 from 12 to 13.30 and T3 from 13.30 to 14.00

It is possible to set delays of 15, 30, 45 minutes, independent for every hour of the day.

TEMPERATURES T1,T2,T3 SETTING

The factory setting includes:

- T1 = 5°C, T2 = 15°C, T3 = 18°C (heating/winter operation ☿)
- T1 = off, T2 = 23°C, T3 = 25°C (conditioning/summer operation ☼)

How to change the temperature values T1/ T2/ T3

To modify the values of the 3 temperatures T1, T2 and T3:

- 1) Press the key corresponding to the temperature to be modified (T1, T2 and T3). The set value flashes
- 2) Press the keys “▲” and “▼” to increase or decrease the temperature
- 3) Press the key “✓” to confirm

Note: temperature values between L D (minimum value) and H I (maximum value) are allowed. These factory values are: L D = 2°C, H I = 50°C but can be modified through the ADV menu. Note: the condition T1 ≤ T2 ≤ T3 must be respected.

TIMING SETTING

Set a timing to prolong the current operation for the duration of the timing itself.

There are 3 timings available:

- **Timed manual:** set a timing during manual operation to maintain this operation until timing has elapsed. At the end of the timing, the device activates the automatic operation.
- **Timed automatic:** set a timing during the automatic operation to maintain this operation until the timing has elapsed.
- At the end of the timing, the device activates the off operation
- **Off timed:** set a timing during off operation to maintain this operation until timing has elapsed.

At the end of the timing, the device activates automatic or manual operation, depending on which operation was active before switching off.

How to set a timing

To set a timing:

- 1) Press the key ☒
- 2) Press the keys “▲” and “▼” to increase or decrease the duration of the timing.
 - Increases of:
 - 15 minutes (') for timings up to 24 hours
 - 1 hour (h) for timings from 1 to 5 days (d)
 - 12 hours for timings from 5 to 99 days
- 3) Press the key “✓” to confirm

When a timing is in progress, the symbol ☒ is lit.

Note: to cancel a timing in progress or to exit without activating the timing, set 00'.

Note: the timing ends in the case of changes to the operating mode.

Note: the condition T1 ≤ T2 ≤ T3 must be respected.

ADVANCED PARAMETERS SETTING

To access the advanced programming menu:

- 1) Press the key “PRG” for a long time
- 2) Press the keys “▲” and “▼” to modify the value of the selected parameter
- 3) Press the key “☿” to move to the next parameter
- 4) After confirming all the parameters, the device exits the advanced programming menu and resumes normal operation

Note: the device exits the menu after about 40 seconds without pressing any key.

Type of regulation

(this menu is active only if operating mode = heating)

Setting up:

- ☐ to choose on/off regulation.
- ☐ to choose proportional regulation.

Factory value: ☐ (on/off).

Note: the on/off regulation is suitable for most home situations.

Therefore it is advisable to modify this parameter only in case of real need.



Parameters for the regulation type

(this menu varies depending on the chosen regulation type)

If the chosen regulation type is on/off, set the differential d IF.

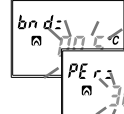
Allowed values: 0.1°C ÷ 1°C Factory value: 0.3 °C

If the chosen regulation type is proportional,

set the band b n d and the period P E r.

Allowed values: 0.5°C ÷ 5°C (band), 10, 20 or 30 minutes (period).

Factory value: 0.5 °C (band), 10 minutes (period).



Antifreeze temperature

(this menu is active only if operating mode = heating)

The antifreeze temperature avoids the risk of freezing of the system when on the chronothermostat is set the off operation ☐.

Allowed values: ---, 1°C ÷ 50°C Factory value: 6°C.

Note: the “---” setting excludes the antifreeze function; in this case, when the device is off, no minimum temperature is guaranteed



Adjustment of the measured temperature

In particular installation conditions, it can happen that the temperature measured by the device deviates from the average temperature present in the room.

In this case, introduce an adjustment temperature with the ADJ menu.

Allowed values: -5°C ÷ 5°C Factory value: 0 °C.

Note: the temperature value shown on the display during normal operation is inclusive of any adjustment introduced.

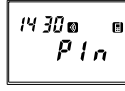


Wi-Fi connection configuration

This sub-menu consists of 3 different screens and described below.

To switch from one screen to another, use the keys “▲” and “▼”.

- the device PIN. It is a 4-digit number necessary to associate the device with your Vemer account. This screen also shows:



- the status of the Wi-Fi connection:

- ☑ on fixed: associated with a Vemer account
- ☑ flashing: not associated with any Vemer account

- the association between the device and the Vemer account:

- ☑ on fixed: associated with a Vemer account
- ☑ flashing: not associated with any Vemer account

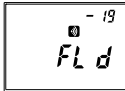
Note: during the first 20 seconds or so of this screen the icon ☑ is always flashing.

To activate (or deactivate) the “off-line” mode, press the key “☐” for a long time (more than 3 seconds) until “OFF” appears on the display.
In “Offline” mode, the device is disconnected from the Vemer Cloud and cannot be controlled via the app.

The device works according to the latest programming downloaded from the Cloud.



- the MAC address of the device. It is a sequence of characters that uniquely identifies a device within a network of devices (reading must be done from left to right).

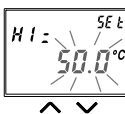


- the intensity of the signal between the device and the router (FLD). For values:
 - higher than -60dB: excellent signal quality
 - between -60dB and -90dB: good signal quality
 - lower than -90dB: poor signal quality that could compromise communication between device and router. In this case, bring the device closer to the router.

Minimum/Maximum settable temperature

Under particular installation conditions, for example in public buildings, hotels, etc., it may be useful to limit the range of values that the temperatures T1/T2/T3 and Tm can assume, in order to prevent incorrect settings by the user.

- L D is the lower limit
Allowed values: 2°C ÷ H I Factory value: 2°C
- H I is the upper limit
Allowed values: L D ÷ 50°C Factory value: 50°C

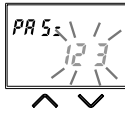


Password for key lock

This menu allows you to choose the 3-digit numeric password needed to unlock the keypad when it is locked.

A code from 0 to 999 can be set.

The factory code is 123.

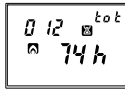


To activate the keypad lock, see “Other device functions”

Hour meter of system operation

It displays the operating hours of the system (relay contacts on C-NO).

The device has two counters (5-digit) independent for heating operation and for the conditioning operation, but is displayed only the counter of the selected operation mode.

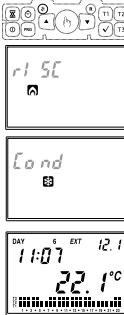


To reset the counter, press the key “☿” for a long time during the display. The maximum count is 65535h (about 7 years), when this digit is reached, the counter resumes the count from 0h.

SUMMER / WINTER OPERATION

To switch from winter operation to summer operation (or vice versa), press the key “☼” with a tip

The message “rISC” (or “Cond”) flashes and the symbol “☼” (or “☿”).



With the keys “▲” and “▼” it is possible to select one of the two operations.

The program will switch to the desired operation by pressing the key “✓” key or after 45 seconds from the last operation.

DEVICE RESET

Perform a reset to cancel the settings made and bring the device back to the conditions in which it appears as soon as it has been removed from the packaging.

To reset:

press the key “R” and then (within 3 seconds) the key “✓”.

The display shows “dEF” to indicate the reset.

Operation mode	heating (winter)	Add. ADJ temperature	0 °C
Regulation type	on/off	Min. settable temperature	2 °C
Differential (on/off)	0.3 °C	Max. settable temperature	50 °C
Band (proportional)	0.5 °C	Hour meter operation ☼☿	0 h
Period (proportional)	10 minutes	Automatic summer time change	active (according to EU rules)
Antifreeze temperature OFF	6 °C	Backlighting	active
		Key lock password	deactivated

OTHER FUNCTIONS OF THE DEVICE

Display of minimum/maximum daily temperature

The device stores the minimum and maximum temperature measured during the day. Press the keypad “▼” to display the minimum temperature (L D) or “▲” for the maximum temperature (H I). To cancel the recorded value, hold down the key “▼” or “▲” for a long time (more than 3 seconds).

Keypad lock / unlock with password - LOCK

Activate the keypad lock to prevent changes to the device configuration, for example because it is installed in public places.

To activate the keypad lock, hold down the keys T1, T2 and T3 simultaneously for a long time (more than 3 seconds). The message “bLoc” appears on the display.

When the keyboard is locked, following the pressure of any key, the word “bLoc” appears. To be able to act on the keyboard again, the keys T1, T2 and T3 must be pressed again at the same time for a long time (more than 3 seconds) until two flashing dashes appear on the display. At this point, enter the correct password, finally confirming with the key “✓”.

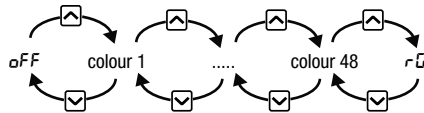
The password is a 3-digit number and can be set in the “Advanced parameters setting” menu.

Display backlighting - LAMP

The display backlighting can be chosen by the user from:

- always off (it is activated only for 30 seconds after pressing a key)
- lit in a colour chosen by the user from 48 possible shades
- on with a variable colour between red, green and blue based on the difference between the measured temperature and the desired one (setpoint). In particular:
 - Blue if the measured temperature is lower than the set temperature by at least 0.5°C (and for the 30 seconds after pressing a key)
 - Green if the difference between the measured and the set temperature is, in absolute value, less than 0.5°C (and when the off operation is active)
 - Red if the measured temperature is higher than the set temperature by at least 0.5°C

To change the backlighting, press and hold simultaneously for a long time (more than 3 seconds) the keys “▲” and “▼” until LAMP appears on the display, Then use the keys “▲” and “▼” to choose the desired colour, considering the following sequence:



Note: the backlighting can also be activated / deactivated from the main screen, by holding down the keys “▼” and “☐” (to turn off) or “▲” and “☐” (to turn on) simultaneously for a long time (more than 3 seconds).

REFERENCE STANDARDS

EU Conformity Declaration:
Vemer declares that the device complies with the Community Directive 2014/53/EU (RED)
with reference to the following standards:
EN 60730-2-7, EN 60730-2-9, ETSI EN 300 328, ETSI EN 301 489-1, ETSI EN 301 489-17

